

UNITED STATES PATENT APPLICATION

For

**SYSTEM AND METHOD FOR CONSTRUCTION, DELIVERY AND DISPLAY OF iTV
APPLICATIONS THAT BLEND PROGRAMMING INFORMATION OF ON-DEMAND AND
BROADCAST SERVICE OFFERINGS**

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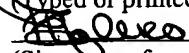
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**SYSTEM AND METHOD FOR CONSTRUCTION, DELIVERY AND DISPLAY OF iTV
APPLICATIONS THAT BLEND PROGRAMMING INFORMATION OF ON-DEMAND AND
BROADCAST SERVICE OFFERINGS**

RELATED APPLICATIONS

[0001] The present application is related to, incorporates by reference and claims the priority benefit of U.S. Provisional Application 60/486,567, entitled “System and Method for Construction, Delivery and Display of iTV Applications that Blend Programming Information of On-Demand and Broadcast Service Offerings”, filed July 11, 2003. The present application is also a Continuation-in-Part, claims the priority benefit of and incorporates by reference the following U.S. Patent Applications, each assigned to the assignee of the present application:

- a Application No. 10/390,064, filed 3/14/2003, entitled: System and Method For Construction, Delivery and Display of iTV.
- b Application No. 10/460,950, filed 6/12/03, entitled: Graphically Rich, Modular, Promotional Tile Interface for Interactive Television

FIELD OF THE INVENTION

[0002] The present invention relates to systems and methods for enabling and automating the delivery of interactive television content to subscribers.

BACKGROUND

[0003] Interactive television (iTV) is currently available in varying forms, each of which combines, in some form or other, the passive viewing experience of traditional TV viewing with the interactive nature of the World Wide Web. Thus, in different implementations, iTV might allow viewers (or subscribers) to review local news headlines or weather forecasts while watching their favorite television shows and/or electronically chatting with other viewers about the latest plot twists. Such text and graphics information is referred to as Managed Content.

Certainly all iTV systems have a version of an interactive program guide or electronic program guide (IPG or EPG, respectively) that allows subscribers to learn about and select desired programming

[0004] Such programming generally comes in two forms: linear and non-linear. Linear programming is another name for traditional broadcast programming. That is, programming that is available for viewing by subscribers according to a schedule promulgated by the iTV service and/or content provider. Current IPGs allow subscribers to browse and select linear programming and some also include the ability to subset linear program listing data by subject or type of programming.

[0005] In addition to linear or broadcast television, subscribers may now also be given opportunities to select from a list of programs that are not linear, but instead are provided on-demand. Such content is generically referred to as non-linear programming or Video on Demand (VOD). Current IPGs for browsing and selecting VOD programs include the ability to select such programming from categories of non-linear (on-demand) programming.

SUMMARY OF THE INVENTION

[0006] The present invention provides, in various embodiments, systems and methods by which subscribers are presented with navigational interfaces that blend linear, non-linear, and (in some cases) managed content or information services and/or links to games together in a single screen, or single iTV application.

[0007] In one embodiment, the user interface allows for blending of television program choices from which a viewer may select, the blending representing options for linear and non-linear programming presented together within a single hierarchy of a designated category. The blending may further include managed content relevant to the designated category, where desired. Such designated category may be a television programming category and/or a content category. The options for linear and non-linear programming are, in some embodiments, presented together within a single screen of the user interface.

[0008] A further embodiment provides a user interface that includes a navigational hierarchy that blends linear and non-linear programming options, and information services in a single presentation. The blend of programming choices may be presented as a set of all available programming options and/or a subset of all available programming options. The navigational hierarchy is, in some cases, presented in a single screen of information and the blending of information services with linear and non-linear programming information may be done at multiple levels of content categorization. The non-linear programming information may include information about programs recorded on a subscriber storage unit. The blending referred to above may be performed according to categories (e.g., content categories, content provider categories, etc.) of programming, and/or may span content delivery types and content categories.

[0009] Still another embodiment provides a user interface which includes a single screen having various regions thereof for displaying non-linear programming information, linear programming information and managed content relevant to the linear and non-linear programming information or category. The linear and non-linear programming information are preferably within a common category (e.g., a content category or a

content provider category).

[00010] The user interface may additionally include a scaled audio/video or background audio/video presentation area. A navigation control configured to allow scrolling through content offerings (e.g., channel families) provided by a common content provider may also be provided. In such cases, video information presented in the scaled or background video presentation area can be dependent upon scrolling via the navigation control. The navigation control may include a category descriptor.

BRIEF DESCRIPTION OF THE DRAWINGS

[00011] The present invention is illustrated by way of example, and not limitation, in the figures of the accompanying drawings, in which:

[00012] Figure 1 illustrates a conceptual model for the blending of linear programming, non-linear programming and managed content in a single user interface or iTV application in accordance with an embodiment of the present invention.

[00013] Figure 2 illustrates an example of an iTV navigation application hierarchy configured in accordance with an embodiment of the present invention.

[00014] Figure 3 illustrates the separation of content types among category applications within an iTV navigation application hierarchy configured in accordance with an embodiment of the present invention.

[00015] Figure 4 illustrates the separation of content types among channel applications within an iTV navigation application hierarchy configured in accordance with an embodiment of the present invention.

[00016] Figure 5 illustrates an example of a user interface layout configured for the presentation of multiple content types in accordance with an embodiment of the present invention.

[00017] Figure 6 illustrates an example of the use of scrolling lists of programming opportunities within a user interface configured for the presentation of multiple content types in accordance with an embodiment of the present invention.

[00018] Figures 7, 8 and 9 illustrate the use of category applications and the selection of content elements from within such applications within a user interface configured for the presentation of multiple content types in accordance with embodiments of the present invention.

[00019] Figure 10 illustrates another example of a user interface which combines linear and non-linear programming information in accordance with an embodiment of the present invention.

[00020] Figure 11 illustrates an example of a user interface for a category application in accordance with an embodiment of the present invention.

[00021] Figure 12 illustrates another example of a user interface which combines linear and non-

linear programming information for iTV category applications in accordance with an embodiment of the present invention.

[00022] Figures 13 and 14 illustrate further examples of user interfaces for iTV category applications that provide access to linear and non-linear programming information through a single hierarchy in accordance with embodiments of the present invention.

DETAILED DESCRIPTION

[00023] Described herein are systems and methods by which subscribers are presented with iTV navigational hierarchies that blend linear, non-linear, and (optionally) information services into single, simple presentations. Where current IPG and similar systems fail is in the lack of seamless blending of linear and non-linear programming options. That is, in current IPG systems linear and non-linear programming are presented as separate hierarchies of navigable content. In contrast, the present invention provides systems and methods to allow a subscriber to view both linear and non-linear programming choices together in a single screen, or single iTV application. The present invention thereby allows subscribers to view programming alternatives across both linear and non-linear opportunities.

[00024] In some cases, this blend of programming choices may be presented as the entire set of available programming options or, in other cases, as a subset (or division) of all the available choices. These subsets of programming choices may follow similar hierarchical divisions as exist in current IPG systems; however, in the context of the present invention these divisions will span linear and non-linear programming rather than living in separate hierarchies. Each of the category divisions which can be implemented in accordance with the present invention can be further subdivided in to sub-categories, which can then be divided again and again as need be.

[00025] To illustrate, consider an example of such category division. This example is presented solely for illustrative purposes and should not in any way be read as limiting the types of categorization that can be created or accommodated in the present methods and systems. In accordance with the present invention, a major content category such as "Sports" may be divided in to various subcategories such as "football", "baseball", "soccer", etc. The subcategories such as "football" may then be divided in to further subcategories, such as "professional" (or "pro") and "college" (or "amateur"). Even these subcategories such as "pro" may themselves be further divided in to additional subcategories such as "NFL" and "Arena Football", and so on. This illustration shows that categorization can be continued to any desired level so as to effectively divide up all of the available content offerings into different groupings. Within any and all of

these hierarchical divisions, the present invention allows for the aggregated display of linear programming information, non-linear programming information, and even managed content services all relative to the particular division categorization.

[00026] The benefit of this approach to the television subscriber is that he/she can choose a programming category and then be provided with listings of all available programming in that category. This is distinct from prior IPG solutions in which a subscriber must first decide if he/she wants to view linear programming or non-linear programming and then must choose a content category for browsing (or view a complete list of all programming options within that linear or non-linear class). In such prior systems, a subscriber has to potentially navigate two hierarchies (which may have different structures) to discover what programming is available in either linear or non-linear form.

[00027] Another unique attribute of the present methods and systems is that within the categorized blending of linear and non-linear programming the present invention also allows for the blending of information services (also called managed content) relevant to that categorization. Continuing the “Sports” example then, in addition to presenting all available linear and non-linear sports programming, a user interface configured in accordance with the present invention may also provide information services (e.g., text, graphics, advertisements, promotions) relevant to the sports category within the single screen or application. This blending of information services with linear and non-linear programming information can exist at any level of categorization and so one may have, for example, a blended information service for baseball, or football, etc., in various embodiments of the present invention.

[00028] In some cases the blended category applications may also include listing information about programs that the subscriber has recorded on a hard disk or other storage unit (e.g., a personal video recorder, video cassette recorder, etc.). In the “sports” example above, the application may therefore also include listings of any sports-related content that the subscriber had previously recorded.

[00029] For the purpose of the description presented below, we will refer to non-linear

programming as “**On Demand**” content. That is, audio/video content that does not adhere to previously scheduled program times/dates, and may optionally allow for user controls such as fast-forward, pause and rewind. This includes content/programming played from a VOD server or a local hard disk (or other storage unit), or any other content (including IP-based content delivery) generally available to start on-demand by the subscriber.

[00030] We will further refer to linear programming as “**On Now**” (or in some instances the broadcast listings references are divided into “On Now” and “On Later” - where “On Now” are all of the linear broadcast shows that have already started, or will start within some small interval of time, and the “On Later” linear broadcast shows are those that have not yet started, or that will not start for some short interval of time) content—traditional broadcast television content.

Delivery of “on now” content is based on predetermined programming schedules of date and time (usually promulgated by the iTV service provider or, most often, by the content provider). This category includes time-based data for both what is on right now (i.e., programming that is currently being broadcast over the iTV service) and content scheduled to be broadcast at a specific future point in time.

[00031] Finally, we will refer to information services as “**Managed Content**”. This category includes services made up of elements such as text; graphics and/or audio/video information combined to deliver supplemental information services (e.g., weather forecasts, sports scores, etc.). Managed content also includes advertisements and promotions and may also contain links to On Now and/or On Demand content or even games and other applications.

[00032] Along with the various content types comes categorization that is logical to the content. With On Demand and On Now content, this categorization can take many forms. The present inventors have found instances of these types of content sorted into as few as 14 categories up to as many as 42 categories. Table 1 illustrates a potential categorization across the three content types.

Table 1: Examples of Content Categories within Content Types

ON DEMAND	ON NOW / LATER	MANAGED CONTENT
News	News	News
Movies	Movies	Movies
Kids	Kids	Kids
Sports	Sports	Sports
Comedy	Comedy	Weather
Westerns	Westerns	Local
Outdoors	Outdoors	Entertainment
Reality TV	Reality TV	Shopping
Home/Garden	Home/Garden	Travel
Romance	Romance	
Exercise	Exercise	
Music	Music	
Cooking	Cooking	
Talk Shows	Talk Shows	
Shopping	Shopping	
Travel	Travel	
Etc.	Etc.	

[00033] Table 1 is illustrative of the problem with prior art. Namely, there are independent hierarchies for finding programming and a user interface implementing these hierarchies would not serve the viewer that wants to see all a list of SPORTS content regardless of its type (linear programming, non-linear programming, and managed content) at one time. An example of the present sorting methodology, however, would first expose content categories to the user and then only later (e.g., the next layer down or subcategory) expose the content type (e.g., On Demand, On Now, and/or Managed Content). Figure 1 illustrates this concept.

[00034] Figure 1 illustrates a conceptual model for the blending of linear programming, non-linear programming and managed content in a single user interface or iTV application in accordance with an embodiment of the present invention. The model 10 is meant to illustrate the universe (or a portion thereof) of television content offerings within an iTV service. This universe of content has been divided into content categories (News, Sports, Movies, etc.) 12a – 12p and each content category may have content elements that are within on-demand, on now or managed content subcategories. For example, the Movies category 12c may include on-demand movies, regular broadcast movies (on now / later) and managed content such as movie synopses, run times, and so on. Rather than segregating the available information regarding movies across disparate hierarchies, the present invention combines this information into a single hierarchy within the categorized element. This approach allows for the blending of services such that the user can go to one place to view the programming selections and managed content for a given category. One advantage to this approach is, for example, that all SPORTS or MOVIE content is available in a single view.

[00035] The combination of delivery types and categories can be expressed in a user interface that is very straightforward. In one embodiment, the iTV application top level of the user interface need only present the most general (On Demand, On Now) and most popular categories (Movies, Sports, News, Kids, Games, etc). The rest of the content categories may be exposed through a search mechanism, which is ubiquitous throughout the user interface. Thus, even very specific categories are quickly accessible because the search mechanism is exposed on almost all screens of the user interface – always presenting programming that has been sorted by the type of filter the viewer has chosen – whether it is a delivery type or main category. To better illustrate this concept, we describe below various embodiments of a user interface and discuss how the user interacts therewith (e.g., via a remote control) to navigate the various paths to the desired content.

[00036] As shown in Figure 2, at the very highest level of one embodiment of the user interface architecture is a MENU application 20. The MENU's role is to provide persistent navigation for global user interface functions (e.g., Help, Home, Search, and Favorites) as well as primary

destinations (e.g., On Demand and On Now programming). A secondary function of the MENU 20 is to allow for controlled promotions to any content across all applications. An important point in the process is to begin to slice the content types based on various user types and user scenarios.

[00037] Figure 2 illustrates the first step in this process by showing the content types, On Demand and On Now, as stand-alone destinations 22 and 24, respectively. In addition, a SEARCH application 26 would allow the user to make a specific query and get results from content that is both On Demand and On Now (as represented by the content-type boxes within the Search application). In addition, a predefined (or perhaps user-specified up to a point) number of category-specific applications focused around strategic content categories (e.g. Movies, Sports, News, Kids, Games, etc.) and that blend the content types within a category, may be presented via or through the MENU 20. FAVORITES 28 is also an application that includes a cross-section of On Demand and On Now/Later content, but is populated based on the user's preferences as a filter. Note that the architecture illustrated in Figure 2 does not exclude Managed Content services from being an element of "My Favorites" or of "Search". However, a preferred embodiment of the present invention will have the Managed Content mixed in within category applications such that it is presented within the context of linear and non-linear programming information aggregation.

[00038] It will be apparent to the reader that one could easily devise many possible content categories; indeed, many more than could be comfortably fit into an elegant user interface to be presented on a television screen. However, the creation of major, category-specific applications focused around strategic content categories (i.e., Sports, News, Shopping, Kids, etc.) would allow a logical blending of the various content types.

[00039] Figure 3 illustrates an example that includes eight major content categories 30a – 30h, with the blending of content from On Demand (left-most blocks within the categories), On Now (middle) and Managed Content (right-most) sources. The premise here is that the iTV service has "collected" all the data (available programming and information services) around a category

(such as SPORTS) and is providing that data to the user in a single experience. A predefined (or perhaps user-specified up to a point) number of these content applications (apps) may be presented via or through the MENU 20. The present invention also provides a form of user-selected personalization where the user is allowed to select which blended content app(s) he/she would like in his/her MENU 20. In one embodiment, this personalization of the MENU 20 to show specific blended categories is done through a settings screen that allows for selection and sequencing of categories to be added to the menu.

[00040] Figure 4 illustrates another example of the use of blended programming within categories in accordance with the present invention. This time the categorization does not involve solely content categories, but rather network (or content provider) categories 40a – 40f. Network programmer (or content provider) owned pages (e.g., ESPNTM, etc.) and secondary content categories (e.g., SOAPS) thus also allow for the blending of content types. In this experience, the user is shown content listings (from the various content providers) for On Demand and On Now programming for that network programmer, mixed in with the network programmer's Managed Content (such as scores or sports news). Thus, in these applications, the On Demand, On Now and managed content types provided or related to the network programmer are blended together into the application navigation scheme. The network or programmer application may also be expanded to include all content that is related by network family (e.g. a Disney network of channels including Disney channel, ABC, ESPN, ESPN2, etc.) or programmer brand (e.g. ScrippsTM networks, HBOTM, ShowtimeTM, etc.) The SOAPS application 40a is used as an example of a service operator (e.g., MSO, Telco, etc.) owned application and is meant to illustrate that secondary category applications can be created in addition to the major category applications. As illustrated in figures 3 and 4, some applications could have scaled video in the interface while others may utilize full screen, or screen overlay video.

[00041] In one embodiment of the present invention, navigation to a programmer-specific blended content application is done from a Channel Info Bar portion of the user interface as well as via the network-specific listings in the On Demand, On Now, and Favorites interface areas. The user

may also access blended content applications (or any service) from the remote control if such applications or services are assigned a channel number.

[00042] As indicated above, the present invention may be implemented by creating and populating interfaces that uniquely combine linear and non-linear programming information. In some cases these interfaces also combine Managed Content services such as text, graphics, advertisement, and promotions relevant to a categorization of programming with the programming information. The problems associated with delivering these blended content services lies in the aggregation of the data elements, the construction of the individual applications, the distribution of the applications and the data elements, and the interface elements that provide for navigation by the user. Below we present various illustrations of interface implementations, however, it should be remembered that these examples are not meant to be an exhaustive catalog of the manners in which the blending of content in accordance with the present invention may be carried out. Many other implementations are likewise possible and so the examples presented below should be regarded as illustrative, but not limiting in terms of the scope of the present invention.

[00043] The aggregation of the data elements in accordance with the present invention includes the aggregation of linear programming data, non-linear programming data, and managed content data about a single category. In the following examples the linear and non-linear programming data is combined with the managed content data at a server and then broadcast to one or more subscribers as part of individual iTV applications that represent the category blended content applications. Other implementations include accessing some or all of the data from a data store on the set-top box (STB). The above-cited co-pending patent applications provide examples of content distribution schemes which may be used to create and distribute these iTV applications and so a description of such systems and methods will not be repeated herein. The transport of the individual applications and their data sets may then be carried out using conventional data carouselling technology or by accessing information and applications cached on the STB. In other embodiments some of the data may be retrieved by the client application by using

programming interfaces provided on a set-top box which allows access to linear and/or non-linear programming, and/or managed content information. Such local access would allow for retrieving information by category.

[00044] Figure 5 illustrates an example wire format of a user interface screen 50 that incorporates the above-described blending of different content elements: linear programming, non-linear programming, and managed content services. The positioning of various elements in the diagram is not indicative of a specific design but rather of relative screen real estate allocation for the various graphical elements. Of course, different embodiments of the user interface may allocate screen real estate differently, for example in order to emphasize currently selected elements of the interface or to accommodate viewer preferences.

[00045] In order to provide the blended content elements, all elements need not be visible at one time. For example, other embodiments of this invention include providing the different content elements behind a series of cascading menus or behind different tabs within the user interface screen; the menus or tabs being accessible via a set-top box remote control. In such cases the information is still aggregated within one interface but the screen real estate devoted to a particular content type is maximized by allowing different content types to take precedence at any given moment.

[00046] Within user interface screen 50, a branding window 51 is provided for content provider or service provider branding. Such branding may include channel logos, provider logos, or other graphical elements to identify the offered content with a particular provider.

[00047] In addition, a global navigation area 52 is reserved for placement of icons, widgets or other navigational tools through which a user may navigate within the user interface application. Navigation will generally be provided via a set-top box remote control, which is used to position and actuate an on-screen cursor in the conventional fashion. Typical navigation elements for such applications include those for a Home page, a Favorites page and so on.

[00048] A managed content area 53 is also provided. Within this area 53, information services relevant to the particular content category may be displayed. The particular content type may be

selected through content navigation elements that are displayed in a content application navigation window 54. For example, navigation elements for content categories such as Sports, Movies, etc. may be displayed within window 54.

[00049] The On Now / Later Listing and On Demand Listing areas 55 and 56, respectively, area used for the display of the relevant program listings within the currently selected category. In some cases the On Now/later and On Demand listings will not be displayed in separate windows but will be further blended together in a single area within screen 50. Examples of such blending are described below in connection with further embodiments of the present user interface.

[00050] A scaled broadcast video window (or picture in picture (PIP) window) 57 may also be provided within screen 50. Such a window allows for display of the currently viewed programming (e.g., so that a viewer might may use of the managed content services while still watching a television program) or may be used as a preview window as a user scrolls through programming options displayed in the On Now/Later window 55 (e.g., in order to assist the viewer in making a programming selection). In some cases, previews of On Demand content could also be displayed within window 57, for example to act as an enticement for a viewer to order the program.

[00051] Finally, an advertising or promotions area 58 is reserved for the display of advertising or promotions content. Such content may or may not be related to the presently selected category at the option of the service provider. Examples of promotional content (as reflected in the samples discussed below) include advertisements for upcoming programming.

[00052] Figure 6 illustrates another example of a user interface screen 60 configured in accordance with an embodiment of the present invention. In this example, the left-most portion of screen 60 corresponds to the On Now / Later listings window discussed above. In particular, a scrolling (paging) vertical list 61 of linear programming opportunities (with corresponding channel information) is displayed. Upon the selection of one of the content titles 62 (which correspond to the programs available for current viewing on the associated channel) within the programming list 60, the episode list 63 at right-most side of screen 60 appears. The episode list

63 provides a complete picture of the available programming opportunities for the selected content title and includes both On Now / Later listing and On Demand listings for that title. For example, if the selected content title 62a corresponded to the HBO™ series Sopranos™, the episode list 63 at the right might display the current day's episode being broadcast (i.e., the corresponding On Now / Later listing) as well as available On Demand episodes that are offered by the content provider or are saved on the viewer's personal video recorder. The linear and non-linear listings are blended into one simple interface.

[00053] In addition to the program listings, the user interface screen 60 also includes an episode description window 64 in which information regarding the currently selected episode may be presented. In the above example, information regarding the selected Sopranos episode could be presented. Also, navigational elements such as the On Demand link 65 and Search application tab 66 are provided. On Demand link 65 provides a navigational element that allows the viewer to switch from linear listings to non-linear listings. Search application tab 66 provides a mechanism for the viewer to access a Search application. Finally, various Branding windows 67 and 68 and a Time of Day display 69 are provided.

[00054] Figures 7, 8 and 9 illustrate an embodiment of a category application for Movies. Within this category the user can select sub-categories. The category application is displayed through a user interface screen 70 that incorporates the features of the present invention discussed above. For example, screen 70 includes a branding window 71 and a window for the display of the current date/time 79. Also included are global navigation elements (e.g., icons) 72 that allow the viewer to navigate within the user interface application.

[00055] Content category selection may be made through the content application navigation elements 74. The familiar elements for On Now, On Later and On Demand content are provided. Selection of any of these elements will result in the corresponding scrolling list of programming options being displayed within the Listings window 75. In addition, a content navigation element that allows for the selection of different category types is also present. So too are windows 78a and 78b for the display of advertising or promotional content.

[00056] The three illustrations show how a user might navigate within the interface screen 70 to select a desired program. Figure 7 begins with the user having displayed the interface screen 70 on the television and the Movies content category application selected (e.g., through the use of appropriate remote control buttons). Presently displayed are the On Now listings for the Movies category. The listings are displayed within window 75 and may include the movie start time, title and network/channel.

[00057] Suppose now the user wishes to view only a certain subcategory of information within the Movies category. Figure 8 shows a situation where the subscriber selected a sub-categorization of the “Movies”, namely “Family Movies”. This selection was made by selecting the Category navigational element from the content application navigation elements 74. In response, the listings window 75 displayed a list of available Movie subcategories, one of which is Family. Using the remote control, the viewer can select this subcategory. Once the data has been subsetted in this fashion, the user may decide to shift the view of the application from “On Now” to “On Demand”. Figure 9 shows the resulting screen where listing window 75 now displays the On Demand titles available for Family Movies.

[00058] Thus, the present invention accommodates the user navigating to the “Movies” application where the user is presented with an aggregation of Movies across both linear and non-linear programming. Further, managed content such as promotions for movies or trailers which are relevant to the Family Movies category may be displayed in windows 78a and/or 78b in place of other advertising.

[00059] Another illustration of the present invention is one in which the linear and non-linear programming information is presented at the same time as illustrated in Figure 10. This method allows for the combined presentation of both linear programming information and non-linear programming information without having to switch views. This method also simplifies the interface to more simply allow for selection of sub categorization.

[00060] User interface screen 100 includes the familiar branding windows 101, time/date windows 109 and content application navigation elements 104. In this example, the content

category selected is “Baseball” which is a subcategory of All Sports. Thus, listings window 107 includes the baseball listings for the current date. Importantly, this listing includes both the linear program listings 105 and the non-linear program listings 106 for the selected baseball category. The linear listings may include the game time, identification and network/channel information. The non-linear baseball listings may include game identification, network and cost to view. Note that the interface also contains Managed Content section 103 in the form of tickering baseball scores that are relevant to the currently selected baseball category. Relevant advertising 108 may also be displayed.

[00061] Figure 11 illustrates a demonstration embodiment of a category application for a specific content provider. Within this category the user can view linear programming information, non-linear programming information, as well as managed content information from this content provider. The illustration shows an example presentation of several Manage Content services within a user interface screen 110. One such Managed Content service is illustrated by ‘Today in History’, which is selected via the content application navigation elements 114. Upon selection of this element, various listings of events on the current day’s date in history are displayed in listings window 115. These listings could link to text and graphic data or to on-demand videos. The interface additionally still provides the ability to navigate to linear and non linear programming for this category. And includes the familiar branding 111, date/time 119 and advertising 118 and 119 windows.

[00062] Figure 12 illustrates an embodiment of a category application for the broad category of Sports. Within this category the user can view linear programming information, non-linear programming information. This illustration further illustrates a unique way to have visibility into the sub-category filters for the Sports applications. Here the sub-categories are accessed through a horizontal scrolling list 126.

[00063] The user interface screen 120 includes the branding window 121, date/time window 129 and advertising window 128. This time, a scaled video inset window 127 is included, for example to allow the viewer to watch a picture-in-picture presentation of the currently selected

programming. The content application navigation elements 124 and listings window 125 are provided for display of available content in the selected application category.

[00064] The scrolling list 126 allows for subcategory selection within the selected category. For example, within Sports, the subcategory Golf has been selected, thus causing the listings being displayed in window 125 to be related to Golf. As each listing is selected, information regarding that program may be displayed in the programming information window 123.

[00065] Figures 13 and 14 illustrate embodiments of a category application for specific content providers. From these category applications users may gain access to both linear programming information as well as non-linear programming information. Access is provided through a single category hierarchy rather than down separate paths for linear and non-linear content.

[00066] User interface screen 130 includes the branding window 131 and the familiar content application navigation elements 134 (although this time the arrangement of these elements is somewhat different than in previous examples). Managed content offered through this type of category application includes the programming promotions 133a and 133b and a large graphical promotion 138. The large graphical promotion may highlight an upcoming special presentation or high-profile series, etc. As shown in Figure 14, the arrangement of these elements may vary to suite the content provider's needs and other links (such as global navigation links 132) may also be provided.

[00067] The examples given in Figures 13 and 14 also have a widget control 135 that is unique to this invention. The widget control 135 further provides category specific information filtering to allow the user to browse content relative to the given category. The widget control 135 may be illustrated by the content provider's call sign (or logo) with up and down arrows on the top and bottom of the call sign. The arrows may be replaced with other icons indicating navigation control, but regardless of the icon used the behavior of the control 135 is the same. The up and down arrows allow the user to scroll the PIP window 137 through a family of channels. The family may be all of the content provider's related channels, for example, within a service offering (e.g., all HBO channels or all Disney channels that a user has subscribed to and/or are

available On Demand). In another embodiment the widget control 135 may read “Sports” (or other content category) and the up and down arrows may allow the user to scroll through the PIPs associated with all of the sports (or other content category) channels. In this way a user can view actual content instead of just listings thereof to assist in making a channel selection.

[00068] The widget control 135 includes an optional category descriptor (which category may be determined by the context of the application), up and down (or lateral or both) navigation buttons 141 (and/or mapped remote control keys) and a PIP window 137. As indicated above, the basic control behavior is to allow scrolling through a set of channels and optionally tuning to any one of the channels, while viewing the associated content in the PIP window 137 during the scrolling. The act of scrolling through the content options may also affect the other information on the screen such that stays contextual with the content displayed in the PIP window 137.

[00069] Thus, systems and methods by which subscribers are presented with navigational interfaces that blend linear, non-linear, and (in some cases) managed content or information services together in a single screen, or single iTV application have been described. Although discussed with reference to various illustrated embodiments, however, the present invention should only be measured in terms of the claims, which follow.